

Appendix D Glossary of Technical Terms

Glossary of Technical & Abbreviated Terms

AADT	Annual Average Daily Traffic, represents an average 24-hour period of traffic on a facility in both directions averaged over 1 year, or the total of all traffic counted for 1 year, divided by 365 days.
AB	Assembly Bill
ABAG	Association of Bay Area Governments
ac	acres
ACCMA	Alameda County Congestion Management Agency
ACE	Altamont Commuter Express
ACHP	Advisory Council on Historic Preservation
ACTIA	Alameda County Transportation Improvement Authority
ADL	Aerially deposited lead
ADT	Average Daily Traffic, total traffic on a facility in both directions, for one 24-hour day, averaged over a given time period.
ALMIS	America's Labor Market Information System
APE	Area of Potential Effects, the area within which archaeological or historical resources may be affected by a project.
ASR	Archaeological Survey Report
AST	aboveground storage tank
Auxiliary Lane	An auxiliary lane is a traffic lane used to facilitate mainline through-traffic movements. The auxiliary lanes allow traffic entering and exiting the freeway to accelerate or decelerate outside of the through traffic lanes.
BAAB	Bay Area Air Basin
BAAQMD	Bay Area Air Quality Management District
BART	Bay Area Rapid Transit
BATLUC	Bay Area Transportation and Land Use Coalition
Beneficial Use	Use of a natural water resource that enhances the social, economic, and environmental well-being of the user. Twenty-one beneficial uses are defined for the waters of California, ranging from municipal and domestic supply to fisheries and wildlife habitat.
BMP	Best Management Practice, regarding construction phase practices.
BTEX	benzene, toluene, ethyl benzene, and xylenes
CAA	Clean Air Act, as amended in 1990
CAAQS	California Ambient Air Quality Standards
Cal EPA	California Environmental Protection Agency
CalEPPC	California Exotic Pest Plant Council

Caltrans	California Department of Transportation
CAP	Bay Area Clean Air Plan
CARB	California Air Resources Board
CCAA	California Clean Air Act
CDFG	California Department of Fish and Game
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CESA	California Endangered Species Act
CFGC	California Fish and Game Commission
CFR	<i>Code of Federal Regulations</i>
CHP	California Highway Patrol
CMP	Corrugated metal pipe
CNDDDB	California Natural Diversity Database
CNPPA	California Native Plant Protection Act
CNPS	California Native Plant Society
CO	carbon monoxide
CORSIM	Corridor Simulation
CRHR	California Register of Historic Resources
CWA	Clean Water Act
DART	Direct Access Responsive Transit
dB	decibels, a measurement unit for noise.
dBA	A-weighted decibels, the measurement of noise that best represents human perception.
DMUs	Diesel Multiple Units
DOT	United States Department of Transportation
DTSC	California State Department of Toxic Substances Control
EA	Environmental Assessment
EB	eastbound
EBRPD	East Bay Regional Park District
EDAB	Economic Development Alliance for Business
EDR	Environmental Data Resources, Inc.
EFZ	Earthquake Fault Zone
EO	Executive Order

EPA	United States Environmental Protection Agency
ESA	Environmentally Sensitive Area
F	fatality
°F	degrees Fahrenheit
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rating Map
FIS	Flood Insurance Study
ft	foot/feet
FTA	Federal Transit Administration
ha	hectares
HCM	Highway Capacity Manual
HIP	Housing Implementation Program
HM	hotel/motel
HOV	High-Occupancy Vehicle
HPSR	Historic Properties Survey Report
HRER	Historic Resource Evaluation Report
Hz	hertz
I	injury
I-205	Interstate Highway 205
I-5	Interstate Highway 5
I-580	Interstate Highway 580
I-680	Interstate Highway 680
I.L.	Insertion Loss
IS	Initial Study
ISA	Initial Site Assessment, a review of all published data sources on hazardous waste sites and hazardous waste releases in the vicinity of a project.
hm	kilometer(s)
km ²	square kilometers
km/h	kilometers per hour
KP	kilometer post
kV	kilovolt
LAV	Livermore-Amador Valley

LAVTA	Livermore-Amador Valley Transit Authority
LBP	lead-based paint
LE	Longitudinal Encroachment
Lead Agency	Public agency that has primary responsibility for carrying out or approving a project that may have a significant effect on the environment and preparing the environmental document.
$L_{eq}(h)$	A-weighted equivalent sound level averaged over a 1-hour period of time.
L_{max}	Highest sound level during a specified period of time.
LOS	Level of Service
LUST	leaking underground storage tank
m	meter(s)
Maintenance Area	A federal term to describe any geographic region of the United States designated nonattainment pursuant to the CAA and subsequently redesignated to attainment subject to the requirement to develop a maintenance plan under Section 175A of the CAA.
MBTA	Federal Migratory Bird Treaty Act
MFR	multi-family residence
mg/kg	milligrams/kilogram
mg/L	milligrams per liter
mg/m^3	milligrams per cubic meter
$\mu g/m^3$	micrograms per cubic meter
mi	mile(s)
MIS	Major Investment Study, prepared during the early planning phase to analyze the range of modal alternatives and cost/benefits of “major metropolitan transportation investments,” which are defined as being highway or transit improvements of substantial cost that are expected to have a significant effect on capacity, traffic flow, level of service or mode share at the transportation corridor or subarea scale. TEA-21 eliminated the requirement for a separate MIS document, but the analysis still must be conducted.
mm	millimeter
M_{max}	moment magnitude
mph	miles per hour
MPO	Metropolitan Planning Organization, a federal designation for the forum for cooperative transportation decision-making for an urbanized area with population of more than 50,000.
MSE	mechanically stabilized earth
MTBE	methyl tertiary butyl ether
MTC	Metropolitan Transportation Commission of the Bay Area

MV	million vehicles
MVM	million vehicle miles
NAAQS	National Ambient Air Quality Standards
NAC	Noise Abatement Criteria
NAHC	Native American Heritage Commission
NB	northbound
ND	Negative Declaration
NEPA	National Environmental Policy Act
NES	Natural Environment Study
NFRAP	No Further Remedial Action Planned
NHPA	National Historic Preservation Act
NO	nitric oxide
NO ₂	nitrogen dioxide
NOAA Fisheries	National Oceanic and Atmospheric Administration Fisheries Service
NOI	Notice of Intent
Nonattainment Area	Any geographic region of the United States that EPA has designated as a nonattainment area for a transportation related pollutant(s) for which an NAAQS exists.
NO _x	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System Permit, required for facilities and activities that discharge waste into surface waters from a confined pipe or channel.
NPL	National Priorities List
NRCS	United States Department of Agriculture, Natural Resources Conservation Service
NRHP	National Register of Historic Places
NWP	Nationwide Permit
O ₃	Ozone
OH	overhead utility
OHWM	Ordinary high water mark, a distinguishing characteristic of Other Waters of the U.S.
PA	Programmatic Agreement
PAC	Project Advisory Committee
Pb	lead
pc/mi/ln	passenger car per mile per lane
PDS	Project Development Support

PDT	Project Development Team, a multidisciplinary advisory group assembled to review and provide direction on project development.
PG&E	Pacific Gas & Electric
PM	postmile
PM ₁₀	particulate matter less than 10 microns in diameter (one micron is equal to one millionth of a meter)
PM _{2.5}	particulate matter less than 2.5 microns in diameter, considered to be fine particulate matter (one micron is equal to one-millionth of meter)
ppm	parts per million
PRC	California Public Resources Code
PSR	Project Study Report, a Caltrans document establishing consensus among state and local decision makers in the viability and appropriateness of a project. Initiates preliminary engineering and environmental review phase of project development.
PYE	person years of employment
RCRA	Resource Conservation and Recovery Act
REC	recreation facility
Responsible Agency	A “public agency, other than the lead agency that has responsibility for carrying out or approving a project” (PRC 21069). The CEQA Guidelines further explain the statutory definition by stating that a “responsible agency” includes “all public agencies other than the Lead Agency which have discretionary approval power over the project” (14 CCR 15381). State and local public agencies that have discretionary authority to issue permits, for example, fall into this category.
RM2	Regional Measure 2
ROG	reactive organic gases
ROW	right-of-way
RTP	Regional Transportation Plan for the San Francisco Bay Area
RWQCB	California Regional Water Quality Control Board
Scoping	A process for determining the scope of issues to be addressed in an EA and EIS and for identifying significant issues to be analyzed in depth in an EIS.
SHPO	State Historic Preservation Officer

Significance	<p>CEQA defines a "significant effect on the environment" as "a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project, including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic significance. An economic or social change by itself shall not be considered a significant effect on the environment. A social or economic change related to a physical change may be considered in determining whether the physical change is significant" (15382).</p> <p>CEQA requires that the lead agency identify each "significant effect on the environment" resulting from the project and avoid or mitigate it.</p> <p>The CEQA Guidelines include mandatory findings of significance for certain effects, thus requiring the preparation of an EIR.</p>
SIP	State Implementation Plan, the portion (or portions) of an applicable implementation plan approved or promulgated, or the most recent revision thereof, under sections 110, 301(d) and 175A of CAA.
SJRTD	San Joaquin Regional Transit District
SO ₂	sulfur dioxide
SO _x	sulfur oxides
sq mi	square mile(s)
STIP	Statewide Transportation Improvement Program, a staged, multiyear, statewide, intermodal program of transportation projects that is consistent with the statewide transportation plan and planning processes and metropolitan plans, TIPs, and processes.
STR	utility on structure
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	California State Water Resources Control Board, the principal authority for regulating the quantity and quality of waters in the state, established by act of the California legislature in 1967.
tBART	BART-compatible technology
TBD	To be Determined
TCLP	Toxicity Characteristic Leaching Procedure
TCM	Transportation Control Measure, any measure specifically identified and committed to in the applicable implementation plan that is either one of the types listed in § 108 of the CAA, or any other measure for the purpose of reducing emissions or concentrations of air pollutants from transportation sources by reducing vehicle use or changing traffic flow or congestion conditions. Notwithstanding the above, vehicle technology-based, fuel-base, and maintenance-based measures that control the emissions from vehicles under fixed traffic conditions are not TCMs for the purposes of project-level conformity.
TCRP	Transportation Congestion Relief Program
TDS	total dissolved solids

TEA-21	Transportation Equity Act for the 21 st Century
TIP	Transportation Improvement Program, a staged, multi-year, intermodal program of transportation projects that is consistent with the metropolitan transportation plan. It is a federal term.
TMDL	Total Maximum Daily Load
TMP	Transportation Management Plan, used to maintain and manage traffic and transportation in a project vicinity during construction.
TPH	total petroleum hydrocarbons
TR	Transverse Direction
TVTC	Tri-Valley Transportation Council
UG	Underground Utility
UGB	Urban Growth Boundary
UNK	Unknown
USACE	United States Army Corps of Engineers
U.S.C.	United States Code
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tank
VMT	vehicle miles of travel
vph	vehicles per hour
WB	westbound
WDR	waste discharge requirements
Wetland	Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions (USACE and EPA definition).
WH&SP	Worker Health and Safety Plan